

# General Relativity & Relativistic Astrophysics

## Classical

- *Gravitation and Cosmology* S. Weinberg , Wiley (1972)
- *Gravitation* Charles W. Misner, Kip S. Thorne & John A. Wheeler, Freeman (1973)
- *Problem Book in Relativity and Gravitation* A.P. Lightman, W.H. Press, R.H. Price & S.A. Teukolsky, Princeton (1975)
- *A First Course in General Relativity* B.F. Schutz, Cambridge (1986)

## Textbooks

- *General Relativity and its Applications: Black Holes, Compact Stars and Gravitational Waves* V. Ferrari, L. Gualtieri, P. Pani, CRC Press (2021)
- *Gravity: Newtonian, Post-Newtonian, Relativistic* Eric Poisson & Clifford M. Will, Cambridge (2014)
- *General Relativity : An Introduction for Physicists* M.P. Hobson, G. Efstathiou & A.N. Lasenby, Cambridge (2006)
- *Gravitation and Spacetime* Hans Ohanian and Remo Ruffini, Cambridge University Press (2013)
- *GRAVITY : an Introduction to Einstein's General Relativity* J.B. Hartle, Addison-Wesley (2003)
- *An Introduction to General Relativity: SPACETIME and GEOMETRY* S.M. Carroll, Addison-Wesley (2004)
- *A First Course in General Relativity* B.F. Schutz, Cambridge (2009) (2nd edition)
- *A Student's Manual for A First Course in General Relativity (by B.F. Schutz)* Robert B. Scott, Cambridge University Press (2016)
- *Introduction to General Relativity* Cosimo Bambi, Springer (2018)
- ...
- *Relativity: An Introduction to Special and General Relativity* Hans Stefani, Cambridge (2004) (also in German)
- *Relativity, Gravitation and Cosmology : A Basic Introduction* Ta-Pei Cheng, Oxford (2005)
- *Relativity : Special, General and Cosmological* W. Rindler, Oxford (2006)
- *Classical Fields: General relativity and Gauge Theory* Moshe Carmeli, World Scientific (2001)

## Neutron Stars, Relativistic Astrophysics & Gravitational Waves

- *Black Holes, White Dwarfs and Neutron Stars* Stuart L. Shapiro and Saul A. Teukolsky, Wiley (1983)
- *Compact Stars: Nuclear Physics, Particle Physics and General Relativity* Norman K. Glendenning, Springer (2000)
- *NEUTRON STARS I : Equations of State and Structure* P. Haensel, A.Y. Potekhin, D.G. Yakovlev, Springer (2007)
- *Compact Objects in Astrophysics: White Dwarfs, Neutron Stars and Black Holes* Max Camenzind, Springer (2007)
- *Gravitational Waves, Vol I : Theory and Experiments* Michele Maggiore, Oxford (2008)
- *Gravitational Waves, Vol II : Sources* Michele Maggiore, Oxford (2018)
- *Gravitational-Wave Physics and Astronomy: An Introduction to Theory, Experiment and Data Analysis* J.D.E. Creighton and W.G. Anderson Wiley-VCH, (2011)
- *Gravitational-Wave Astronomy: Exploring the Dark Side of the Universe* Nils Andersson, Oxford (2020)

## Popular

- *Black Holes and Time Warps : Einstein's outrageous legacy* Kip S. Thorne, W.W.Norton (1994)
- *Gravity: from the ground up* B.F.Schutz, Cambridge (2003)